

Library Changes

MTAS

LIBRARY REVISION INFORMATION

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1 Introduction

This document shows the changes in the vMTAS 1.8 library between the following releases:

From vMTAS 1.7 R6A, EN/LZN 765 0163/9 R6A

To vMTAS 1.8 R7A, EN/LZN 765 0163/9 R7A

The following changes are shown:

- Documents added
- Documents changed
- Documents removed

The reason for a change is described, for example, new, updated, or removed features, as well as corrected faults and responses to change requests.

Minor changes, however, such as language corrections, link errors, and editorial improvements are not shown in the tables below unless these are the only corrections in the update.

2 Description of Changes

The structure in this section reflects the structure of the current library.

2.1 New and Changed Documents

2.1.1 Library Overview

Table 1 Library Overview

| Title | Identity | Change |
|--------------------------------|----------------------------------|-------------------|
| Glossary of Terms and Acronyms | 1/0033-AVA 901 29/9 Uen F | Added UAT, IN, BL |
| Library Changes | 109 45-EN/LZN 765 0163/9-6 Uen A | New document |
| MTAS Library Overview | 1551-EN/LZN 765 0163/9 Uen G | |

**Table 1** *Library Overview*

| Title | Identity | Change |
|---|-----------------------------------|-------------------------|
| Typographic Conventions | <i>1/1551-FCK 101 05 Uen E</i> | Corrected code example. |
| How to Get Started with Active Library Explorer | <i>1/1553-CRAH 301 1061 Uen H</i> | Added trademarklist. |

2.1.2 Product Overview

Table 2 *Product Overview*

| Title | Identity | Change |
|---|------------------------------------|--|
| Free and Open Source Software | <i>1/0962-AVA 901 29/9 Uen F</i> | Updated LDEwSLES , Core MW , Trace EA, Trace CC , COM , eVIP , SEC , JavaOAM , LM , DBS , iPXE , JavaOAM, CoreMW , ASM , Cglib , POJO , Thrift , Boost , OpenSAF. added Vsftpd, Javassist, JGroups , OrderedDict , Apache Tomcat |
| vMTAS 1 Technical Product Description Common Features | <i>1/221 02-FGC 101 3266 Uen C</i> | |
| MTAS 17B Technical Product Description MMTel AS | <i>2/221 02-FGC 101 2990 Uen H</i> | |
| MTAS 17B Technical Product Description SCC AS | <i>3/221 02-FGC 101 2990 Uen E</i> | |
| MTAS 16B Technical Product Description SIP Trunking AS | <i>5/221 02-FGC 101 2990 Uen C</i> | |
| vMTAS 1.8 Technical Product Description Business Line AS | <i>8/221 02-FGC 101 3266 Uen A</i> | <i>New document</i> |
| MTAS 17A Technical Product Description NW AS Communication Interworking | <i>7/221 02-FGC 101 2990 Uen B</i> | |

Table 3 *Product Overview/Statement of Compliance/MTAS*

| Title | Identity | Change |
|---------------------------------------|------------------------------------|---|
| MTAS Statement of Compliance Overview | <i>1/174 02-AVA 901 29/9 Uen H</i> | Section 3.1 table 1 3GPP TS 23.38 added |

Table 4 *Product Overview/Statement of Compliance/SS7 Signalling*

| Title | Identity | Change |
|----------|----------------------------------|---|
| MAP ETSI | <i>174 02-CAA 201 45 Uen AB8</i> | <p>Changed state of compliance with section 18.2.3, subsections 18.2.3.1, 18.2.3.2 of 3GPP TS 29.002 v12.4.0 specification to compliant. Changed state of compliance with subsections 22.9.1 and 22.10.1 to partly compliant. Added state of compliance with section 25, subsections 25.1 - 24.10.4 of the specification. Added state of compliance with Annexes A, B and C, subsections C1 - C3.3. Added notes 37-39 to sections 22.9, 22.10, 25. Changed state of MAP-NOTE-SUBSCRIBER-DATA-MODIFIED service to compliant. Changed state of MAP-NOTE-MM-EVENT service to compliant.</p> <p>Added note 40 about Check IMEI.</p> |



Table 4 *Product Overview/Statement of Compliance/SS7 Signalling*

| Title | Identity | Change |
|---------------------------------------|-----------------------------|--|
| SCCP ANSI/ITU/TTC/CHINESE ITU-T 07/96 | 1/174 02-CAA 901 437 Uen S2 | Minor update for TSP: Remove link to external document in Note 26. Stepped the document revision due to PRIM/GASK error. |
| SCTP | 1/174 02-CAA 901 548 Uen J | The following modifications have been done in the scope of HV91803: notes 7 and 119 have been corrected. The following modifications have been done in the scope of 105 65-0334/49532: note 53 has been corrected. |

2.1.3 Planning

Table 5 *Planning*

| Title | Identity | Change |
|---|--------------------------------|------------------------------|
| vMTAS Network Impact Report from 1.4 to 1.8 | 19/109 48-AVA 901 29/9-7 Uen A | New document New document |
| vMTAS Network Impact Report from 1.5 to 1.8 | 20/109 48-AVA 901 29/9-7 Uen A | New document New document |
| vMTAS Network Impact Report from 1.6 to 1.8 | 21/109 48-AVA 901 29/9-7 Uen A | New document New document |
| vMTAS Network Impact Report from 1.7 to 1.8 | 22/109 48-AVA 901 29/9-7 Uen B | New document |

2.1.4 Installation

Table 6 *Installation*

| Title | Identity | Change |
|--|-------------------------------|--|
| vMTAS Upgrade Information from 1.4.2, 1.5.1, 1.6.1, and 1.7.2 to 1.8 | 2/153 72-AVA 901 29/9-7 Uen A | New document New document for vMTAS 1.8 |

2.1.5 Operation and Maintenance

Table 7 *Operation and Maintenance/Fault Management*

| Title | Identity | Change |
|----------------------------|------------------------------|---------------------|
| Check Alarm Status | 13/1543-CAA 901 2587/7 Uen C | Structural changes. |
| Change Alarm Type Severity | 14/1543-CAA 901 2587/7 Uen B | Structural changes. |
| Change Heartbeat Interval | 32/1543-CAA 901 2587/7 Uen B | Structural changes. |
| Create SNMPv1 Target | 6/1543-CAA 901 2587/7 Uen C | Structural changes. |

**Table 7** *Operation and Maintenance/Fault Management*

| Title | Identity | Change |
|-----------------------|------------------------------|--|
| Create SNMPv2C Target | 7/1543-CAA 901 2587/7 Uen C | Structural changes. |
| Create SNMPv3 Target | 8/1543-CAA 901 2587/7 Uen C | Updated section: 2 Procedure Structural changes. |
| Create SNMP View | 12/1543-CAA 901 2587/7 Uen B | Structural changes. |
| Disable SNMP Target | 10/1543-CAA 901 2587/7 Uen B | Structural changes. |
| Enable SNMP Target | 11/1543-CAA 901 2587/7 Uen C | Structural changes. |

Table 8 *Operation and Maintenance/Fault Management/Alarms*

| Title | Identity | Change |
|--|------------------------------|---|
| MTAS Alarm List | 1/006 51-AVA 901 29/9 Uen G | Updated with new alarms Updated faulty alarm names |
| MTAS List of Alarms and Attributes | 4/006 51-AVA 901 29/9 Uen D | New document |
| A Fallback Operation will soon be started | 98/1543-APA 901 44/1 Uen F | Structural changes. |
| BRM, Auto Export Backup Failed | 9/1543-CAA 901 2624/4 Uen C | DITA transformation, editorial updates, and firm revision |
| BRM, Auto Export Manual Backup Failed | 49/1543-CAA 901 2624/4 Uen B | DITA transformation, editorial update, and firm revision. |
| BRM, Scheduled Backup Failed | 8/1543-CAA 901 2624/4 Uen C | DITA transformation & firm revision. |
| Certificate Management, a Valid Certificate is Not Available | 1/1543-CRA 119 1933 Uen E | Prepared for DITA. |
| Certificate Management, Automatic Enrollment Failed | 3/1543-CRA 119 1933 Uen E | Structural changes. |
| Certificate Management, the Certificate is to Expire | 2/1543-CRA 119 1933 Uen D | Structural changes. |
| COM SA, AMF Component Cleanup Failed | 42/1543-APA 901 44/1 Uen E | Structural changes. |
| COM SA, AMF Component Instantiation Failed | 43/1543-APA 901 44/1 Uen F | Structural changes. |
| COM SA, AMF SI Unassigned | 44/1543-APA 901 44/1 Uen F | Structural changes. |
| COM SA, CLM Cluster Node Unavailable | 45/1543-APA 901 44/1 Uen F | Structural changes. |
| COM SA, MDF Detected Model Error | 142/1543-APA 901 44/1 Uen E | Structural changes. |
| COM SA, Proxy Status of a Component Changed to Unproxied | 46/1543-APA 901 44/1 Uen E | Structural changes. |



Table 8 *Operation and Maintenance/Fault Management/Alarms*

| Title | Identity | Change |
|--|-----------------------------|--|
| DBS, Memory Limit Reached | 167/1543-APA 901 44/1 Uen D | Structural changes. |
| eVIP, Gateway Unavailable | 126/1543-APA 901 44/1 Uen E | Structural changes. |
| eVIP, IKE Distribution Not Possible | 127/1543-APA 901 44/1 Uen C | Structural changes. |
| eVIP, IPSEC Tunnel Fault | 128/1543-APA 901 44/1 Uen E | Structural changes. |
| File Management, Number of Files in FileGroup Exceeded | 3/1543-CAA 901 2587/7 Uen D | Updated section: 2 Procedure Structural changes. |
| File Management, Max Size in FileGroup Exceeded | 5/1543-CAA 901 2587/7 Uen D | Updated section: 2 Procedure Structural changes. |
| LemCDCLSV, Operation Execution Timeout | 30/1543-APA 901 44/1 Uen B | Structural changes. |
| License Management, Autonomous Mode Activated | 5/1543-APA 901 44/2 Uen C | Structural changes. |
| License Management, Emergency Unlock Reset Key Required | 7/1543-APA 901 44/2 Uen C | Structural changes. |
| License Management, Key File Fault | 130/1543-AVA 901 29/9 Uen A | New document New document |
| Local Authentication, Authentication Failure Limit Reached | 1/1543-CRA 119 1962 Uen B | Structural changes. |
| LOTG, Disk Replication Communication | 137/1543-APA 901 44/1 Uen G | Structural changes and editorial updates. |
| LOTG, Disk Replication Consistency | 130/1543-APA 901 44/1 Uen G | Structural changes. |
| LOTG, Disk Usage | 131/1543-APA 901 44/1 Uen H | Structural changes and editorial updates. |
| LOTG, Ethernet Bonding | 132/1543-APA 901 44/1 Uen H | Structural changes. |
| LOTG, Memory Usage | 133/1543-APA 901 44/1 Uen H | Structural changes. |
| LOTG, Time Synchronization | 134/1543-APA 901 44/1 Uen J | Structural changes. |
| LPM, Load Regulation Limit Passed | 168/1543-APA 901 44/1 Uen C | Structural changes. |
| MMAS, CPU Load Limit Exceeded | 183/1543-APA 901 44/1 Uen D | Structural changes. |
| MMAS, Heap Memory Load Limit Exceeded | 182/1543-APA 901 44/1 Uen D | Structural changes and editorial updates. |
| MtasLicenses, MMTel Legacy IN Reuse License Absent | 110/1543-AVA 901 29/9 Uen A | New document New document |
| MtasLicenses, MMTel Location Services License Absent | 111/1543-AVA 901 29/9 Uen A | New document New document |

Table 8 *Operation and Maintenance/Fault Management/Alarms*

| Title | Identity | Change |
|---|-----------------------------|---|
| MtasLicenses, MMTel Multimedia License Absent | 112/1543-AVA 901 29/9 Uen A | New document New document |
| MtasLicenses, MMTel Multi Device License Absent | 113/1543-AVA 901 29/9 Uen A | New document New document |
| MtasLicenses, Scc Base License Absent | 114/1543-AVA 901 29/9 Uen A | New document New document |
| MtasMmt, MMTel Voice Base License Absent | 115/1543-AVA 901 29/9 Uen A | New document New document |
| MtasSrvcc, Single Radio Voice Call Continuity License Absent | 116/1543-AVA 901 29/9 Uen A | New document New document |
| MtasScc, WiFi Calling License Absent | 117/1543-AVA 901 29/9 Uen A | New document New document |
| MtasLicenses, MMTel Service Exposure License Absent | 118/1543-AVA 901 29/9 Uen A | New document New document |
| MtasLicenses, MMTel BL Legacy IN Reuse License Absent | 119/1543-AVA 901 29/9 Uen A | New document New document |
| MtasLicenses, MMTel BL Location Services License Absent | 120/1543-AVA 901 29/9 Uen A | New document New document |
| MtasLicenses, MMTel BL Multimedia License Absent | 121/1543-AVA 901 29/9 Uen A | New document New document |
| MtasLicenses, MMTel BL Service Exposure License Absent | 122/1543-AVA 901 29/9 Uen A | New document New document |
| MtasLicenses, UC Routing License Absent | 123/1543-AVA 901 29/9 Uen A | New document New document |
| MtasMmt, BL Voice Base License Absent | 124/1543-AVA 901 29/9 Uen A | New document New document |
| MtasLicenses, Communication Interworking Function NW AS Base License Absent | 125/1543-AVA 901 29/9 Uen A | New document New document |
| MtasLicenses, SIP Trunking AS Base License Absent | 126/1543-AVA 901 29/9 Uen A | New document New document |
| vDicos, Diameter Link Congested | 145/1543-APA 901 44/1 Uen G | Structural changes and editorial updates. |
| vDicos, Diameter Link Disabled | 135/1543-APA 901 44/1 Uen G | Structural changes and editorial updates. |
| vDicos, Diameter Link Failure | 136/1543-APA 901 44/1 Uen G | Structural changes and editorial updates. |



Table 8 Operation and Maintenance/Fault Management/Alarms

| Title | Identity | Change |
|-------------------------------------|-----------------------------|---------------------|
| vDicos, Diameter Own Node Disabled | 143/1543-APA 901 44/1 Uen J | Structural changes. |
| vDicos, Diameter Peer Node Disabled | 144/1543-APA 901 44/1 Uen G | Structural changes. |

Table 9 Operation and Maintenance/Fault Management/Troubleshooting Information

| Title | Identity | Change |
|--------------------------------|-----------------------------|--|
| MTAS AppTrace | 26/1553-AVA 901 29/9 Uen H | <p>Section 3.3: Added General Protection, User Heap exhausted, and User Heap management error in the list.</p> <p>Section 3.4 Catalina Log: modified.</p> <p>Section 5 AppTrace Domains in MTAS: ims.mtas.services.telsessionincoming, ims.mtas.services.ucrouting, ims.mtas.services.multipersona.hh added.</p> <p>Section 3: modified. Section 3.8: step 6 added and step 11 extra information. Section 7: step 2 added.</p> <p>Section 4 AppTrace Process Types in MTAS: modified.</p> <p>Section 6.4 Table 4: "MtasNetTraceMinLevelOrigUser23" and "MtasNetIoMaxLevelOrigUserTermUser23" added.</p> |
| MTAS Fault Codes Catalogue | 1/1545-AVA 901 29/9 Uen E | <p>Section 2.1.1: Added an additional indication added for code 403 for "Warning: User not allowed to put the established dialog on hold"; Added an additional indication for code 403 for "Warning: Credit limit reached"; Added an additional indication for code 480 for "Warning: Credit limit reached"; Added an additional indication for code 480 for "Warning: Release Call received from CAP"; Updated an additional indication for code 480 for "Warning: Northbound Call Control (NCC) service rejects the request during call setup because of CAP stack error".</p> <ul style="list-style-type: none"> Changed fault code: Warning: Redirect-Server-Address received in Credit Control Answer is either invalid or not supported. Added fault code: Warning: Retarget-Address received in Credit Control Answer is either invalid or not supported. |
| MTAS Troubleshooting Guideline | 1/154 51-AVA 901 29/9 Uen H | Section 2.4: Step 3 added to verify all required licenses. |

Table 10 Operation and Maintenance/Fault Management/Data Collection

| Title | Identity | Change |
|------------------------------------|----------------------------|---|
| Data Collection Guideline for MTAS | 70/1543-AVA 901 29/9 Uen G | <p>Section 3.2.2 MTAS Log Files: updated.</p> <p>Section 4.2.2 Data Collection Using Console: step 1 modified.</p> <p>Section 4.3.2 Medium Profile: MtasCountersReport and MtasPmReport deleted.</p> <p>Section 4.3.4 Full Profile: PMReportFiles modified.</p> |

Table 11 Operation and Maintenance/Configuration Management

| Title | Identity | Change |
|---------------------------------|-----------------------------|---------------------|
| Check General System Attributes | 15/1543-CAA 901 258/7 Uen C | Structural changes. |

**Table 11** *Operation and Maintenance/Configuration Management*

| Title | Identity | Change |
|---|------------------------------|---------------------|
| List Supported XML Model Files | 16/1543-CAA 901 2587/7 Uen B | Structural changes. |
| Push XML Model File to Remote File Location | 17/1543-CAA 901 2587/7 Uen B | Structural changes. |

Table 12 *Operation and Maintenance/Configuration Management/Configuration Management Parameters*

| Title | Identity | Change |
|--|------------------------------|--------|
| vMTAS Master Parameter Value List | 1/190 73-AVA 901 29/9 Uen H1 | |
| vMTAS Master Parameter Value List for Performance Management | 2/190 73-AVA 901 29/9 Uen B | |

Table 13 *Operation and Maintenance/Configuration Management/Configuration OPIs, MTAS*

| Title | Identity | Change |
|---|-----------------------------|--|
| MTAS Abbreviated Dialing Management Guide | 41/1553-AVA 901 29/9 Uen B | Section 1.1.1 Licenses updated |
| MTAS Address Policing Management Guide | 49/1553-AVA 901 29/9 Uen B | Section 1.1.1 Licenses updated |
| MTAS Advice of Charge Management Guide | 39/1553-AVA 901 29/9 Uen D | Section 1.1.1 Licenses updated |
| MTAS Announcement Management Guide | 30/1553-AVA 901 29/9 Uen F | Section 3.9.6 Relocation updated |
| MTAS Application Server Interworking Management Guide | 62/1553-AVA 901 29/9 Uen D | Section 2.2.5 and 3.3: Added description about CM attribute mtasAslwSessionProgressMappingOnPreconditionEnabled. |
| MTAS Barring and Dial Plan Services Management Guide | 13/1553-AVA 901 29/9 Uen E | Section 1.1.1 updated for MMTel AS Voice Base license. |
| MTAS Call Admission Control Management Guide | 28/1553-AVA 901 29/9 Uen C | Section 1.1.1 Licenses updated Section 2.5.7.1 Hold Communication in Fixed Mode (UCAC): modified. |
| MTAS Call Return Management Guide | 79/1553-AVA 901 29/9 Uen D | Sections 1.1.1 updated for MMTel AS Voice Base license. |
| MTAS Calling Party Category Management Guide | 53/1553-AVA 901 29/9 Uen D | Section 1.1.1 Licenses updated |
| MTAS CAPv2 Management Guide | 74/1553-AVA 901 29/9 Uen F | Sections 1.1.1 updated for the Legacy IN Reuse license |
| MTAS Carrier Select and Carrier Pre-Select Management Guide | 18/1553-AVA 901 29/9 Uen C | Section 1.1.1 Licenses updated |
| MTAS Cell Announcement Management Guide | 116/1553-AVA 901 29/9 Uen C | Section 1.1.1 Licenses updated |
| MTAS Charging ACR Storage Management Guide | 80/1553-AVA 901 29/9 Uen C | Section 1.1.1 Licenses updated |



Table 13 *Operation and Maintenance/Configuration Management/Configuration OPIs, MTAS*

| Title | Identity | Change |
|---|-----------------------------------|--|
| MTAS Charging Management Guide | <i>3/1553-AVA 901 29/9 Uen F</i> | Sections 1.1.1 updated for MMTel AS Voice Base license. |
| MTAS Closed User Group Management Guide | <i>81/1553-AVA 901 29/9 Uen B</i> | Section 1.1.1 Licenses updated |
| MTAS Communication Completion Management Guide | <i>27/1553-AVA 901 29/9 Uen E</i> | Section 1.1.1 Licenses updated Section 2.3.13 Multi-Persona: added. |
| MTAS Communication Diversion Management Guide | <i>35/1553-AVA 901 29/9 Uen E</i> | Section 1.1.1 Licenses updated |
| MTAS Communication Waiting Management Guide | <i>36/1553-AVA 901 29/9 Uen C</i> | Section 1.1.1 Licenses updated Section 3.8 Precondition Negotiation: added. |
| MTAS Customized Alerting Tones Management Guide | <i>68/1553-AVA 901 29/9 Uen D</i> | Section 1.1.1 Licenses updated. Section 2.1.3 Licensing: removed. Section 4.1 Configuration Activities: Define the routing configuration for SIP messages added. |
| MTAS Dialed Number Mapping Management Guide | <i>70/1553-AVA 901 29/9 Uen G</i> | Updated section 1.1.1 Licenses, |